

B 1 14965

SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND APPLICATION FOR PERMIT TO DRILL WELL

STATE PERMIT NUMBER

HO - 95 - 2432

538115 please type

fill in this form completely

Date Received (APA)

10/31/12

OWNER INFORMATION

Heritage Realty & Land Develop
PO Box 482
Lisbon MD 21765

B 3

LOCATION OF WELL

Howard
Quartz Hill
986A+97
Glenwood Md.

DRILLER INFORMATION

Ralph E. Mayne M S D 119
Ralph E. Mayne Well Drilling
12024 Handy Rd. Mt. Airy MD, 21771

B 4

SOURCES OF DRILLING WATER

1. well

986 Route 97
1150
ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)
DISTANCE FROM ROAD
ENTER FT OR MI



WELL INFORMATION

APPROX. PUMPING RATE 5
AVERAGE DAILY QUANTITY NEEDED 500

USE FOR WATER (CIRCLE APPROPRIATE BOX)

- Domestic Potable Supply & Residential Irrigation
Farming (Livestock Watering & Agricultural Irrigation)
Industrial, Commercial, Dewatering
Public Water Supply Well
Test, Observation, Monitoring
Open Loop Geothermal
Closed Loop Geothermal

NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL

Howard AS14209 13
COUNTY NAME COUNTY NO.
STATE SIGNATURE INSERT S
DATE ISSUED 11/16/2012
CO SIGNATURE EXP. DATE 11/16/13

approved for Tax ID 04-321553
well installed on parcel 401; ID# 04-370406
PROPOSED LOCATION OF WELL ON LOT
SHOW PERMANENT STRUCTURES SUCH AS BUILDINGS, SEPTIC SYSTEM, ROADS AND/OR LANDMARKS AND INDICATE NOT LESS THAN TWO DISTANCE MEASUREMENTS TO WELL

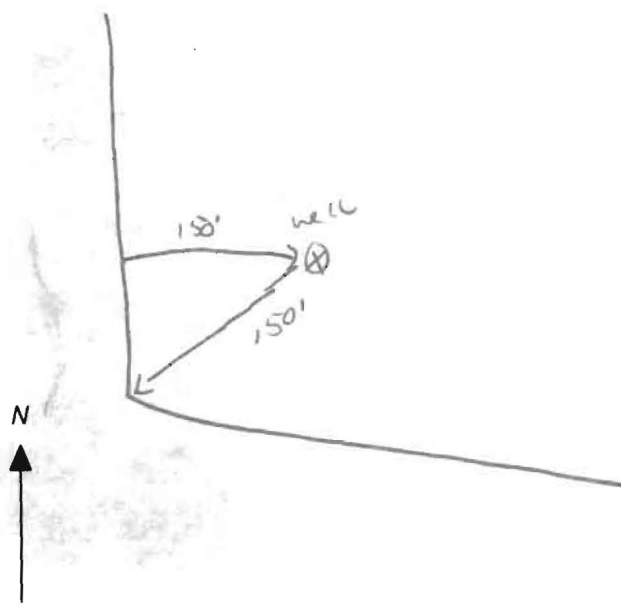
APPROXIMATE DEPTH OF WELL 150 FEET
APPROXIMATE DIAMETER OF WELL 6" NEAREST INCH

METHOD OF DRILLING (circle one)

BORED (or Augered) JETTED Jetted & DRIVEN
AIR-ROTary AIR-PERCussion ROTARY (Hydraulic Rotary)
CABLE REVERSE-ROTary DRIVE-POINT

REPLACEMENT OR DEEPEMED WELLS (CIRCLE APPROPRIATE BOX)

- This well will not replace an existing well
This well will replace a well that will be abandoned and sealed
This well will replace a well that will be used as a standby-contact local approving authority for policy on standby wells
This well will deepen an existing well



Not to be filled in by driller (MDE OR COUNTY USE ONLY)

APPROP. PERMIT NUMBER G
PERMIT No. HO - 95 - 2432

SPECIAL CONDITIONS

NOTE APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED

**HOWARD COUNTY HEALTH DEPARTMENT
BUREAU OF ENVIRONMENTAL HEALTH
WELL & SEPTIC PROGRAM
TEL: (410)313-1771 FAX: (410)313-2648**

Information Form for the Installation of the Well Pump, Pitless Adapter, and Supply Piping

NOTE: The installer is responsible for requesting an inspection prior to 9 am on the day of the desired inspection. No work is to be covered until approved by the Health Department. All installations must comply with the National Standard Plumbing Code (NSPC, as amended locally) and COMAR 26.04.04 (MD Well Construction Regulations). Submission of a complete form is required prior to Use and Occupancy approval.

Company Name: Robert L. Feezer Co. Telephone #: 410-781-4655
Address: 6321 Barnett Avenue
Sykesville, MD 21784

(**Must circle one**) Licensed Plumber Licensed Well Driller Licensed Well Pump Installer
License # and name of individual responsible for the field installation:

Name (Print): Joshua Henricks License# PI0173

***A licensed individual must perform the actual installation. Apprentices must be under the supervision of a licensed journeyman or master plumber, pump installer or well driller. Licenses may be subjected to field verification. Unlicensed individuals may be reported to the appropriate licensing agency.**

Name of Property Owner: JMB Homes Telephone #: 240-372-3571
Subdivision: _____ Lot #: _____ Well Tag #: HO - 95 - 2432 ✓
Site Address: 986 Route 97
Cooksville, MD 21723

Submersible Pump Data

Make: Berkeley
Model #: B10P4MS07221
Pump Capacity 10 GPM
Well Yield: 8.5 GPM

Pitless Adapter

Make: Boshart
Model#: P-100-SS
Depth: 42" (36" min)
NSF/WSC approved: Yes

Well Cap and Electric Conduit

Two piece watertight cap: Yes
Screened, vented well cap: Yes
Cap secured to casing: Yes
Conduit min 18" B.G.: Yes

Depth of well encountered at time of pump installation: 225 (feet) Conduit secured to well cap: Yes

If pump capacity exceeds well yield, a low water cut off switch is required by NSPC 1990 Section 17.8.4

Torque arrestors, Cable guards, or other acceptable method used— Must circle one

Safety rope, if used, attached to brass rope adapter or other acceptable method inside of well casing N/A

Piping to house

Type: Poly
PSI: 200 (160 psi min)
Depth of supply line: 42" (36" min)

House Connection

PVC sleeve to undisturbed soil at wall penetration: Yes
Length of sleeve(5' minimum from foundation): 10'
Sleeve sealed properly: Yes

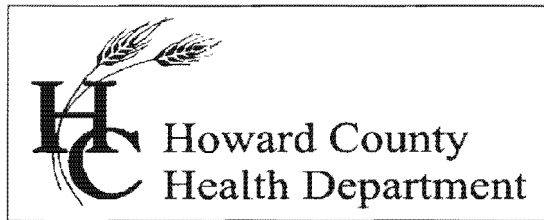
The water supply line is required to be at least ten feet from the septic tank, pump chamber, sewage piping, distribution box, drainfields, and sewage reserve area. If this cannot be accomplished, contact this office for approval prior to installation.

Joshua Henricks Signature of company representative responsible for installation January 18, 2017 date

For Health Department Use Only – Not to be completed by Installer

Date Insp. Requested: 6/9/17 Date Insp. Approved: 6/9/17 Inspector: SC
Inspection Data: Pitless adapter watertight & water supply line at least 36" below grade ✓
Two piece cap installed and attached to casing securely ✓
Elec. conduit extends at least 18" below grade/attached to cap properly ✓
Safety rope not outside of well cap/casing ✓
Correct well tag attached properly and casing 8" above finished grade ✓
Water supply line sleeved adequately at house connection ✓
Adequate grout observed below pitless adapter ✓





Bureau of Environmental Health

8930 Stanford Boulevard, Columbia, MD 21045

Main: 410-313-2640 | Fax: 410-313-2648

TDD 410-313-2323 | Toll Free 1-866-313-6300

www.hchealth.org

Facebook: www.facebook.com/hocohealth

Twitter: HowardCoHealthDep

Maura J. Rossman, M.D., Health Officer

INTERIM CERTIFICATE OF POTABILITY

Expiration Date – January 28, 2018

July 28, 2017

Homeowner
986 Route 97
Cooksville, Maryland 21723

RE:

**986 Route 97
Building Permit: B16003249
Well Permit: HO-95-2435**

Dear Homeowner:

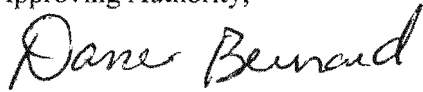
This is to advise you that the septic system installation and water well construction for the above referenced property have been inspected and approved. Final approval of the septic system was granted on 7/17/17. Final approval of the well line connection to the dwelling was granted on 6/9/17. The well construction was completed on 12/7/12. Water samples were collected on 7/18/17.

The water sample results indicate that the water samples submitted for testing were free of coliform and fecal coliform bacteria at the time of sampling and are bacteriologically safe for drinking. This certifies that the initial sampling requirements of COMAR 26.04.04 "Well Regulations" have been met for the water supply system installed under well permit HO-95-2435. Although the submitted sample results are in compliance with COMAR standards, the Health Department does not guarantee water supplies.

This Interim Certificate of Potability will expire **six months** from the date of issuance. Submission of a second bacteriological test indicating the water is free of coliform and fecal coliform bacteria is required prior to the expiration date, after which time a Final Certificate of Potability will be issued. **Failure to submit an additional sample and obtain a Final Certificate of Potability will result in a Notice of Violation and is punishable as a misdemeanor under the *Annotated Code of Maryland, Environment Article, 9-1311*, subject to a fine of up to \$500 or imprisonment not to exceed three months.**

Please contact (410) 313-1773 to schedule a final water sample appointment or contact a Maryland certified water laboratory to schedule a water sample. A list of laboratories certified by the state of Maryland may be found at the following website:
<http://www.mde.state.md.us/assets/document/WSP-Labs-2010apr16.pdf>

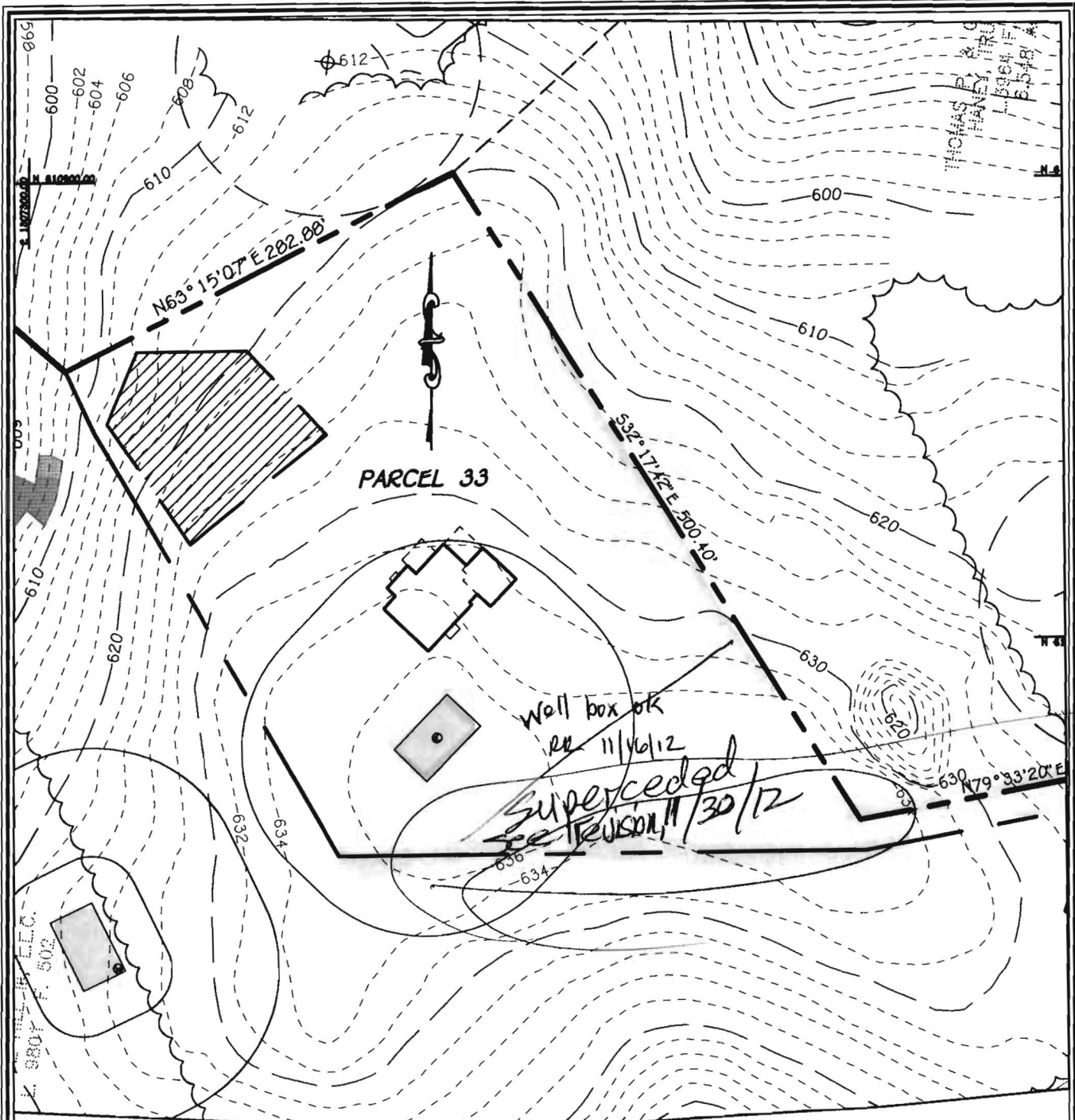
Approving Authority,

A handwritten signature in black ink that reads "Dana Bernard". The signature is written in a cursive style with a large initial "D" and "B".

Dana Bernard, R.E.H.S.
Environmental Sanitarian
Well & Septic Program

cc: Howard County Dept. of Inspections, Licenses, and Permits
Community Hygiene Program
File

K:\SDSKPROJ\30797 QUARTZ HILL\dwg\30797 Revised Perc Parcel 32 10-5-12 Option A.dwg, 10/24/2012 9:53:26 AM, \\SRV1\Downstairs Generic



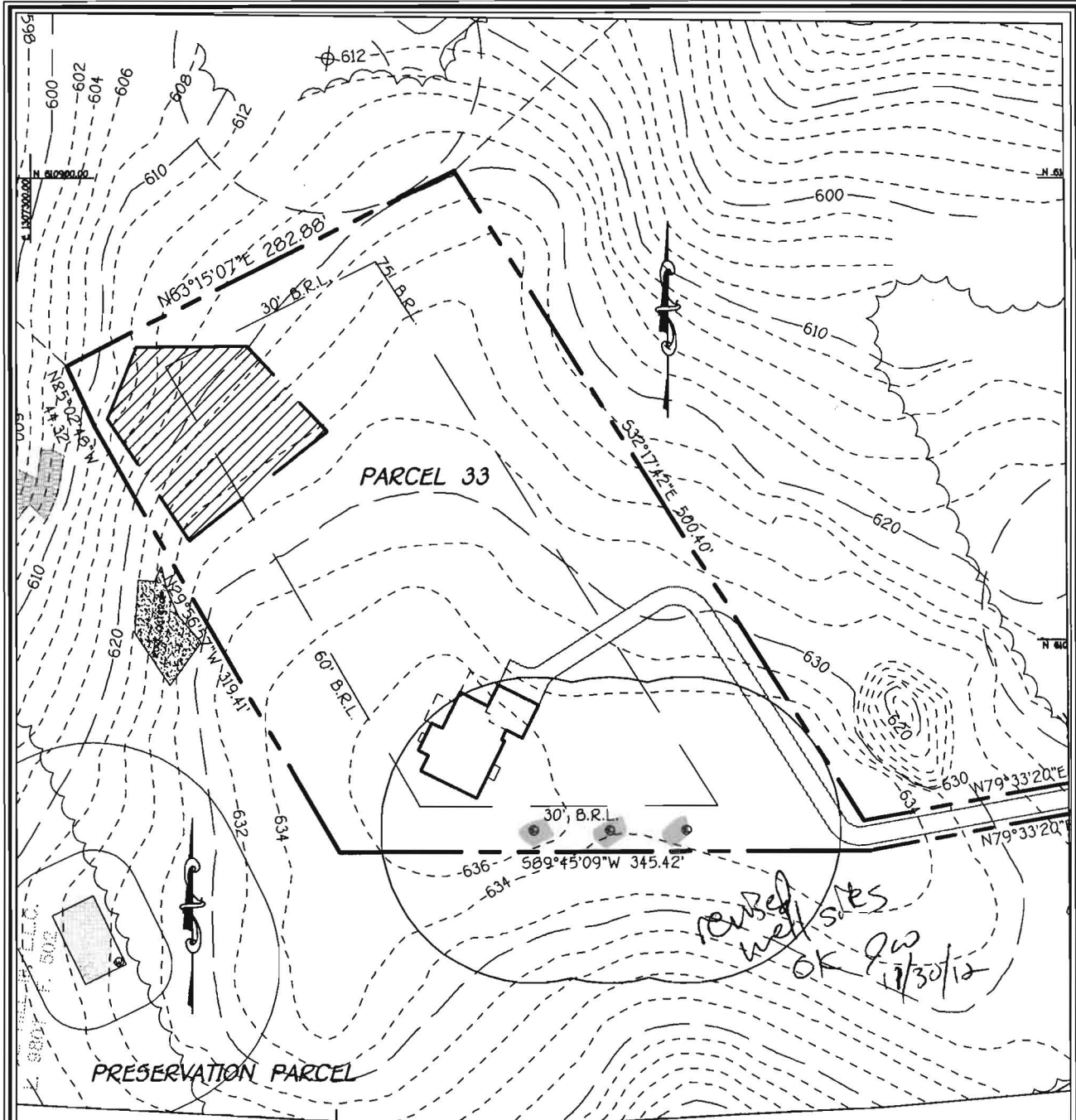
WELL LOCATION INFORMATION:
 NORTHING=610,537 EASTING=1,307,567
 LATITUDE=39°20'35" LONGITUDE=77°01'01"

WELL LOCATION PLAN

QUARTZ HILL ESTATES
 PARCEL 33
 ZONED: RC-DEO
 TAX MAP No. 8 GRID No. 5 PARCEL No: 33
 FOURTH ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND
 DATE: OCTOBER 24, 2012
 SCALE: 1" = 100'
 SHEET 1 OF 1

FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
 ELLICOTT CITY, MARYLAND 21042
 (410) 461 - 2855

K:\SDSKPROJ\30797 QUARTZ HILL\dwg\30797 Revised Perc Parcel 33 10-20-12 Option A.dwg, Parcel 33, 11/20/2012 11:10:31 AM, 1:1



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 NORTHING=610,537 EASTING=1,307,567
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 (410) 461 - 2855

ENVIRO-CHEM LABORATORIES, INC.



47 Loveton Circle, Suite K • Sparks, Maryland 21152

410-472-1112

FINAL REPORT OF ANALYSIS

JMB Homes
15880 Ten Estates Dr.
Woodbine, MD 21797

Report Date: 07/21/2017
Report Number: 170721092108
Use and Occupancy
PERMIT #:

LAB#- E050068-01 SAMPLE ID- 986 Rt 97 WELL # HO 95-2432
LOCATION- Powder Room SAMPLER- N Doegen #9528WD
DATE SAMPLED- 07/18/2017 TIME SAMPLED- 11:00 CHLORINE- <0.05 mg/L
DATE RECEIVED- 07/18/2017 TIME RECEIVED- 12:40
DELIVERED BY- Nat Doegen RECEIVED BY- Ginny Shelley
COMMENTS- Secure well, 2 piece PVC cap and casing. No Treatment.

COMMENTS-

| ANALYSIS | METHOD | ANALYSIS DATE/TIME | BY | RESULT | DATA FLAG |
|------------------------------------|----------|--------------------|-----|--------|-----------|
| Microbiology by Enviro-Chem | | | | | |
| # Total Coliform | SM 9223B | 07/18/17 14:00 | VPS | Absent | PASS |
| # E. Coli | SM 9223B | 07/18/17 14:00 | VPS | Absent | PASS |

Based on coliform bacteriological standards, at the time of sampling this water was **SAFE** for drinking water purposes.

Wet Chemistry by Enviro-Chem

| | | | | | | |
|------------------|------------|----------------|-----|-------|------|------|
| # Nitrate (as N) | EPA 300.0 | 07/18/17 16:08 | WND | < 0.2 | mg/L | PASS |
| \$ pH | SM4500-H+B | 07/18/17 16:30 | KSN | 5.8 | SU | |
| \$ Turbidity | EPA 180.1 | 07/18/17 16:30 | KSN | < 0.2 | NTU | |

OK d
DB

ENVIRO-CHEM LABORATORIES, INC.



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410-472-1112

FINAL REPORT OF ANALYSIS

JMB Homes
15880 Ten Estates Dr.
Woodbine, MD 21797

Report Date: 07/21/2017
Report Number: 170721092108
Use and Occupancy
PERMIT #:

LAB#- E050068-02 SAMPLE ID- 986 Rt 97
LOCATION- Pressure Tank
DATE SAMPLED- 07/18/2017 TIME SAMPLED- 10:55
DATE RECEIVED- 07/18/2017 TIME RECEIVED- 12:40
DELIVERED BY- Nat Doegen RECEIVED BY- Ginny Shelley
COMMENTS- Secure well, 2 piece PVC cap and casing. No Treatment.

WELL # HO 95-2432
SAMPLER- N Doegen #9528WD
CHLORINE-

COMMENTS-

| ANALYSIS | METHOD | ANALYSIS DATE/TIME | BY | RESULT | DATA FLAG |
|-------------------------------------|-----------|-----------------------|-----|---------------|--------------|
| Wet Chemistry by Enviro-Chem | | | | | |
| \$ Sand | EPA 160.5 | 07/18/17 14:15 | VPS | < 0.5 ml/L/Hr | |

Stephen Shelley
Laboratory Director

Certifications

- State of Maryland Certification #192
Virginia Drinking Water 8634
Indicates a MD certified Analyte
! Indicates a MD, VA certified Analyte
\$ Not a certified Analyte

 WATER WELL ABANDONMENT-SEALING REPORT FORM

SUBMIT COPIES OF COMPLETED FORM TO:

- * COUNTY ENVIRONMENTAL AGENCY (contact MDE, WMA if address needed)
- * WELL OWNER
- * MDE, WATER MANAGEMENT ADMINISTRATION, WELL PROGRAM

DATE WELL ABANDONED: Dec 07 2012 (month/day/year)

* PERMIT NUMBER OF ABANDONED WELL (if any)

HO - 95 - 2432

* PERMIT NUMBER OF REPLACEMENT WELL:

HO - 95 - 2432

* PERSON ABANDONING WELL: Ralph E. Mayne WELL DRILLER'S LICENSE NUMBER: 117

CIRCLE: MWD / MSD / MGD

* OWNER'S NAME: Heritage Realty & Land Develop

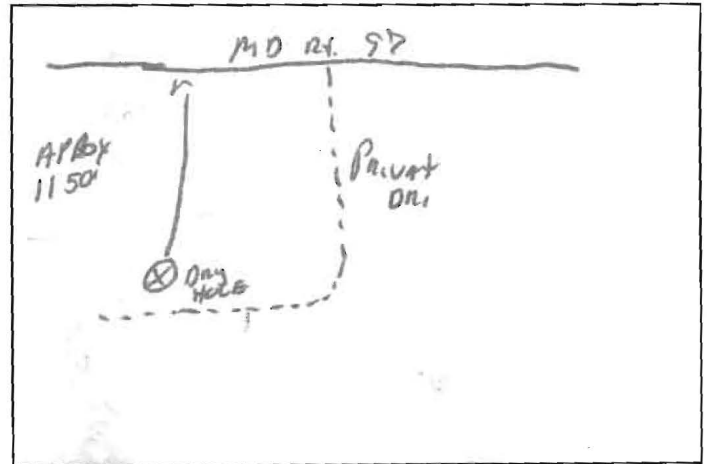
* WELL LOCATION:

COUNTY: Howard
 NEAREST TOWN: Glenwood
 TAX MAP 8 BLOCK PARCEL 88 401 MB
 SUBDIVISION: Quartz Hill Est.
 SECTION: _____ LOT: _____
 STREET ADDRESS: MD Rt. 97 (886 Rte 97)

LATITUDE 3 9 . 20 : 563

LONGITUDE 7 7 . 01 : 056

SITE LOCATION MAP



* TYPE OF WELL BEING ABANDONED:

- DRILLED JETTED
- BORED HAND DUG
- OTHER (specify) _____

* USE CODE: DOMESTIC

- IRRIGATION MUNICIPAL/PUBLIC
- TEST/OBSERVATION INDUSTRIAL
- _____ GEOTHERMAL

* TYPE OF CASING:

- STEEL PLASTIC
- CONCRETE OTHER (specify) _____

SIZE OF CASING: 6 INCHES IN DIAMETER

DEPTH OF WELL: 400 FEET DEEP

WAS ANY CASING REMOVED? YES NO

If yes, length removed, in feet: 60 ft

WAS CASING RIPPED OR PERFORATED? YES NO

LOG OF SEALING MATERIAL

| MATERIAL | FEET | |
|-------------------------|------|----|
| | FROM | TO |
| Blue Stone | 400 | 20 |
| Cement | 20 | 1 |
| Top Soil | 1 | 0 |
| VOLUME OF MATERIAL USED | | |
| 10 BAGS | | |



5/5/17
 1/4" = 200' scale
 wall build
 ground
 - know

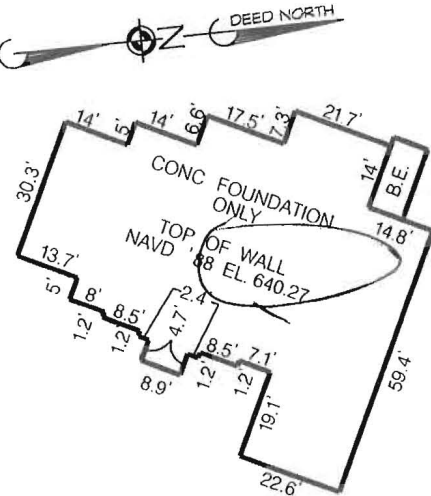
| LINE | BEARING | DISTANCE |
|------|---------------|----------|
| L1 | S 04°30'50" W | 20.09' |
| L2 | S 07°20'28" W | 4.05' |
| L3 | S 14°40'51" E | 33.21' |
| L4 | N 25°02'48" W | 44.32' |
| L5 | N 14°40'51" W | 28.52' |
| L6 | N 13°12'21" W | 20.23' |
| L7 | S 79°33'20" W | 251.65' |
| L8 | N 79°33'20" E | 253.31' |
| L9 | N 36°18'35" W | 84.67' |
| L10 | S 36°18'35" E | 77.71' |
| L11 | S 88°57'41" W | 185.44' |
| L12 | N 88°57'41" E | 217.96' |

PLAN

SCALE: 1" = 200'

SEPTIC RESERVE AREA PER APPROVED "SITE PLAN FOR BAT INSTALLATION" DATED 4-19-16

LAUREL GARIE
 886 HOODS MILL RD.
 COOKSVILLE, MD 21723
 757-7285



DETAIL

SCALE: 1" = 40'

CURVE DATA

| NUMBER | RADIUS | ARC | DELTA | TAN | CHORD BRG. | DIST |
|--------|---------|--------|-----------|--------|---------------|--------|
| C1 | 170.00' | 79.19' | 26°41'28" | 40.32' | N 61°58'25" E | 78.48' |

LEGEND

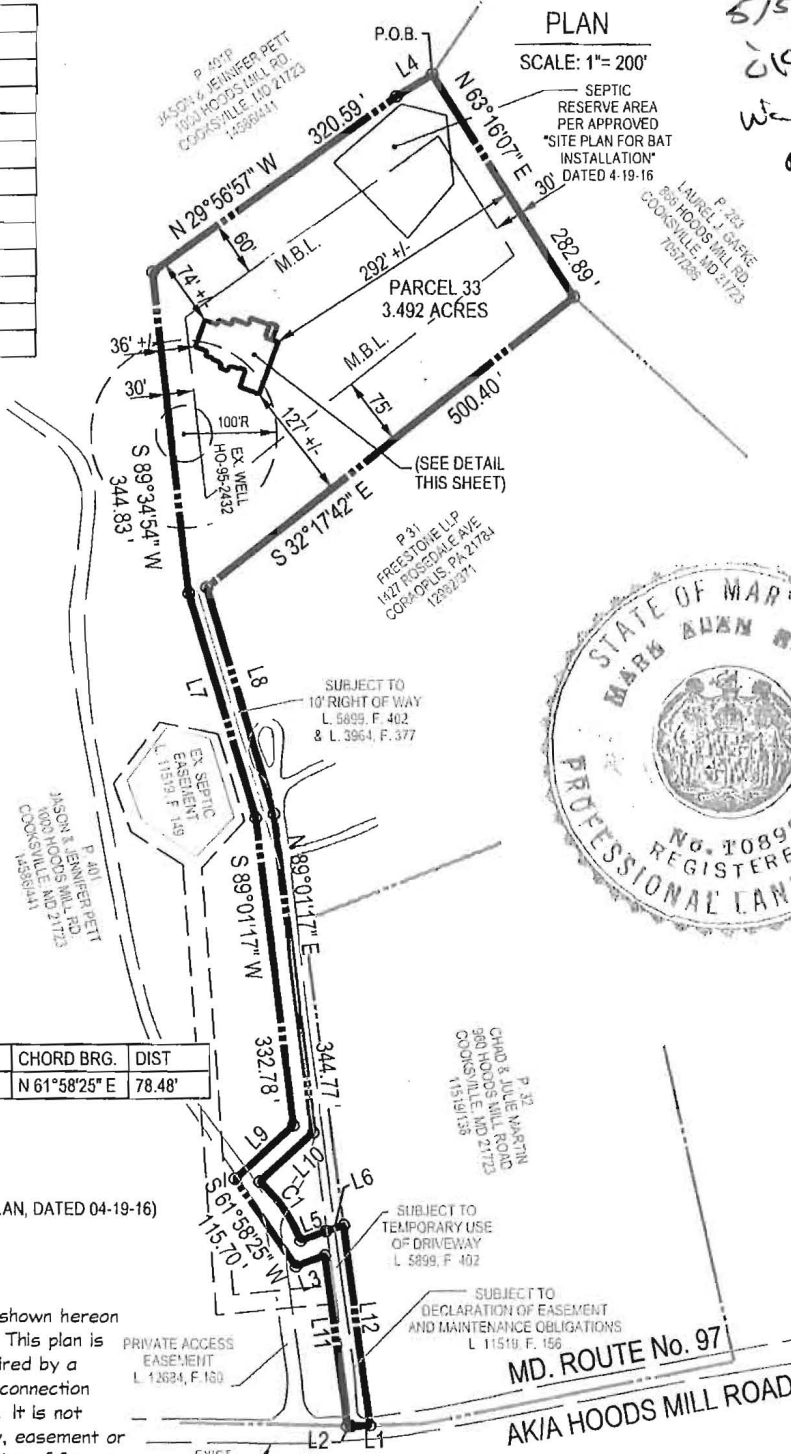
- M.B.L. = MINIMUM BUILDING LINE (PER APPROVED SITE PLAN, DATED 04-19-16)
- B.E. = BASEMENT ENTRANCE/EXIT
- P.O.B. = POINT OF BEGINNING FOR DEED DESCRIPTION

SURVEYOR'S CERTIFICATION

I hereby certify that I have surveyed the property shown hereon for the sole purpose of locating the improvements. This plan is a benefit to the customer only insofar as it is required by a lender or a title insurance company or its agent in connection with contemplated transfer, financing or refinancing. It is not to be relied upon for the establishment of boundary, easement or right-of-way lines for any reason, such as the location of fences, garages, buildings, or other existing or future improvements. Offsets of buildings to property lines are to the nearest foot (1) unless otherwise noted.

By: *Mark A. Riddle* Date: 11/2/16
 Mark A. Riddle, Professional Land Surveyor
 Maryland Registration No. 10899
 License expires May 19, 2018

A licensed Maryland Surveyor either personally prepared this Foundation Certification, or was in responsible charge over its preparation and the surveying work reflected in it, in compliance with the Maryland Minimum Standards of Practice for Land Surveyors. (COMAR 09-13-06.06 AND .12)



FOUNDATION CERTIFICATION
 No. 986 ROUTE 97, COOKSVILLE, MD 21723
CUNNINGHAM PROPERTY
 4th ELECTION DISTRICT • HOWARD COUNTY, MD.
 TAX MAP: 8 • BLOCK: 5 • PARCEL: 33
 RECORDED IN DEED BOOK 14556, PAGE 270



439 East Main Street
 Westminster, MD 21157-5539
 (410) 848-1790
 FAX (410) 848-1791

| | |
|------------|----------|
| DRAWN BY: | KMB |
| DESIGN BY: | |
| REVIEW BY: | MAR |
| DATE: | 10-29-16 |
| SCALE: | AS SHOWN |
| JOB NO: | 2016008 |
| SHEET: | 1 OF 1 |

